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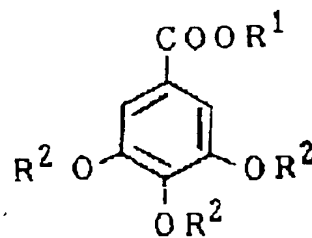
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APPLICANT : SANKIN KOGYO KK;

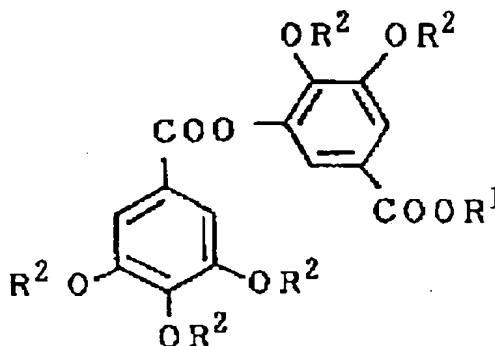
INVENTOR : YUTA SADAYUKI;

INT.CL. : A61K 6/00 C07C 69/88 C07H 13/08
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TITLE : DENTAL ADHESIVE



I



II

ABSTRACT : PURPOSE: To provide a dental adhesive containing a gallic acid derivative or a tannic acid derivative and an acid polymerizable monomer having a polymerizable double bond and an acid group, excellent in adhesive properties to the tooth material, especially dentine and having antimicrobial properties.

CONSTITUTION: This is a dental adhesive containing a gallic acid derivative or a tannic acid derivative of formula I or II [R¹ is a residue having a structure in which one OH is removed from a sugar or a (meth)acryloyloxy-containing alcohol; R² is an acyl having a polymerizable double bond or H] and an acid polymerizable monomer (e.g. tetraacryloyl oxyethyl pyrophosphate) having a polymerizable double bond and an acid group. As the compound of formula I or II, e.g. methacryloylated tannic acid and 2-hydroxy-1,3-propanediyl gallate methacrylate are exemplified. This dental adhesive is remarkably excellent in adhesive force and resistive to leakage from a very narrow space of the periphery. It has also an excellent preventive effect on secondary caries by a protein coagulating action or a metal chelate forming action.

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